

C3. Index of Programs and Dependencies

The following table lists, in alphabetical order, all the routines in Volume 2 of *Numerical Recipes*. When a routine requires subsidiary routines, either from this book or else user-supplied, the full dependency tree is shown: A routine calls directly all routines to which it is connected by a solid line in the column immediately to its right; it calls indirectly the connected routines in all columns to its right. Typographical conventions: Routines from this book are in typewriter font (e.g., `eulsum`, `gammLn`). The smaller, slanted font is used for the second and subsequent occurrences of a routine in a single dependency tree. (When you are getting routines from the *Numerical Recipes* machine-readable media or hypertext archives, you need specify names only in the larger, upright font.) User-supplied routines are indicated by the use of text font and square brackets, e.g., `[funcv]`. Consult the text for individual specifications of these routines. The right-hand side of the table lists chapter and page numbers for each program.

<code>airy</code>	<code>bessik</code>	<code>.....</code>	B6 (p. 1121)
	<code>bessjy</code>	<code>.....</code>	
	<code>beschb</code>	<code>chebev</code>	
<code>amebsa</code>	<code>ran1</code>	<code>ran_state</code>	B10 (p. 1222)
		<code>[func]</code>	
<code>amoeba</code>	<code>[func]</code>	<code>.....</code>	B10 (p. 1208)
<code>anneal</code>	<code>ran1</code>	<code>ran_state</code>	B10 (p. 1219)
<code>arcmak</code>	<code>.....</code>	<code>.....</code>	B20 (p. 1349)
<code>arcode</code>	<code>arcmak</code>	<code>.....</code>	B20 (p. 1350)
<code>avevar</code>	<code>.....</code>	<code>.....</code>	B14 (p. 1270)
<code>badluk</code>	<code>julday</code>	<code>.....</code>	B1 (p. 1011)
	<code>flmoon</code>	<code>.....</code>	
<code>balanc</code>	<code>.....</code>	<code>.....</code>	B11 (p. 1230)
<code>banbks</code>	<code>.....</code>	<code>.....</code>	B2 (p. 1021)
<code>bandec</code>	<code>.....</code>	<code>.....</code>	B2 (p. 1020)
<code>banmul</code>	<code>.....</code>	<code>.....</code>	B2 (p. 1019)
<code>bcucof</code>	<code>.....</code>	<code>.....</code>	B3 (p. 1049)
<code>bcuint</code>	<code>bcucof</code>	<code>.....</code>	B3 (p. 1050)
<code>beschb</code>	<code>chebev</code>	<code>.....</code>	B6 (p. 1118)

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bessi — bessi0	B6 (p. 1114)
bessi0	B6 (p. 1109)
bessi1	B6 (p. 1111)
bessik — beschb — chebev	B6 (p. 1118)
bessj └ bessj0	B6 (p. 1106)
└ bessj1	
bessj0	B6 (p. 1101)
bessj1	B6 (p. 1103)
bessjy — beschb — chebev	B6 (p. 1115)
bessk └ bessk0 — bessi0	B6 (p. 1113)
└ bessk1 — bessi1	
bessk0 — bessi0	B6 (p. 1110)
bessk1 — bessi1	B6 (p. 1112)
bessy └ bessy1 — bessj1	B6 (p. 1105)
└ bessy0 — bessj0	
bessy0 — bessj0	B6 (p. 1102)
bessy1 — bessj1	B6 (p. 1104)
beta — gammln	B6 (p. 1089)
betacf	B6 (p. 1099)
betai └ gammln	B6 (p. 1098)
└ betacf	
bico — factln — gammln	B6 (p. 1087)
bnldev └ ran1 — ran_state	B7 (p. 1155)
└ gammln	
brent — [func]	B10 (p. 1204)
broydn └ fmin └	B9 (p. 1199)
└ fdjac └ [funcv]	
└ qrdcmp	
└ qrupd — rotate	
└ pythag	
└ rsolv	
└ lnsrch — fmin — [funcv]	
bsstep └ mmid — [derivs]	B16 (p. 1303)
└ pzextr	
caldat	B1 (p. 1013)
chder	B5 (p. 1077)
chebev	B5 (p. 1076)
chebft — [func]	B5 (p. 1076)
chebpc	B5 (p. 1078)
chint	B5 (p. 1078)
chixy	B15 (p. 1287)

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choldc	B2 (p. 1038)
cholsl	B2 (p. 1039)
chsone — gammq — gser — gcf — gammln	B14 (p. 1272)
chstwo — gammq — gser — gcf — gammln	B14 (p. 1272)
cisi	B6 (p. 1125)
cntab1 — gammq — gser — gcf — gammln	B14 (p. 1275)
cntab2	B14 (p. 1275)
convlv — realft — four1 — fourrow	B13 (p. 1253)
correl — realft — four1 — fourrow	B13 (p. 1254)
cosft1 — realft — four1 — fourrow	B12 (p. 1245)
cosft2 — realft — four1 — fourrow	B12 (p. 1246)
covsrt	B15 (p. 1289)
cyclic — tridag	B2 (p. 1030)
daub4	B13 (p. 1264)
dawson	B6 (p. 1127)
dbrent — [func] — [dfunc]	B10 (p. 1205)
ddpoly	B5 (p. 1071)
decchk	B20 (p. 1345)
dfpmin — [func] — [dfunc] — lnsrch — [func]	B10 (p. 1215)
dfridr — [func]	B5 (p. 1075)
dftcor	B13 (p. 1261)
dftint — [func] — realft — four1 — fourrow — polint — dftcor	B13 (p. 1263)
difeq	B17 (p. 1320)
dlinmin — mnbrak — dbrent — [func] — [dfunc]	B10 (p. 1212)
eclass	B8 (p. 1180)
eclazz — [equiv]	B8 (p. 1180)
ei	B6 (p. 1097)
eigsrt	B11 (p. 1227)
elle — rf — rd	B6 (p. 1136)

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ellf — rf	B6 (p. 1135)
ellpi — rf	B6 (p. 1136)
└─ rj └─ rc └─ rf	
elmhes	B11 (p. 1231)
erf — gammp — gser — gcf — gammLN	B6 (p. 1094)
erfc — gammp — gser — gcf — gammLN	B6 (p. 1094)
└─ gammq — gser — gcf — gammLN	
erfcc	B6 (p. 1095)
eulsum	B5 (p. 1070)
evlmem	B13 (p. 1258)
expdev — ran1 — ran_state	B7 (p. 1151)
expint	B6 (p. 1096)
factln — gammLN	B6 (p. 1088)
factrl — gammLN	B6 (p. 1086)
fasper — avevar	B13 (p. 1259)
└─ realft — four1 — fourrow	
fdjac — [funcv]	B9 (p. 1197)
fgauss	B15 (p. 1294)
fit — gammq — gser — gcf — gammLN	B15 (p. 1285)
fitexy — avevar	B15 (p. 1286)
└─ fit — gammq — gser — gcf — gammLN	
└─ chixy	
└─ mnbrak	
└─ brent	
└─ gammq — gser — gcf — gammLN	
└─ zbrent — chixy	
fixrts — zroots — laguer	B13 (p. 1257)
└─ indexx	
fleg	B15 (p. 1291)
flmoon	B1 (p. 1010)
fmin — [funcv]	B9 (p. 1198)
four1 — fourrow	B12 (p. 1239)
four1_alt — fourcol	B12 (p. 1240)
four1_gather	B12 (p. 1250)
four2 — fourrow	B12 (p. 1241)

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four2_alt — fourcol	B12 (p. 1242)
four3 — fourrow_3d	B12 (p. 1246)
four3_alt — fourcol_3d	B12 (p. 1247)
fourcol	B12 (p. 1237)
fourcol_3d	B12 (p. 1238)
fourn_gather	B12 (p. 1251)
fourrow	B12 (p. 1235)
fourrow_3d	B12 (p. 1236)
fpoly	B15 (p. 1291)
fred2	
gauleg	B18 (p. 1325)
[ak]	
[g]	
ludcmp	
lubksb	
fredex	
quadmx — wwgts — kermom	B18 (p. 1331)
ludcmp	
lubksb	
fredin	
[ak]	B18 (p. 1326)
[g]	
frenel	B6 (p. 1123)
frprmn	
[func]	B10 (p. 1214)
[dfunc]	
linmin	
mnbrak	
brent	
[func]	
ftest	
avevar	B14 (p. 1271)
betai	
gammln	
betacf	
gamdev — ran1 — ran_state	B7 (p. 1153)
gammln	B6 (p. 1085)
gammp	
gser	
gcf	
gammln	
gammq	
gser	
gcf	
gammln	
gasdev — ran1 — ran_state	B7 (p. 1152)
gaucof	
tqli	
pythag	
eigsrt	
gauher	B4 (p. 1062)
gaujac — gammln	B4 (p. 1063)
gaulag — gammln	B4 (p. 1060)
gauleg	B4 (p. 1059)
gaussj	B2 (p. 1014)
gcf — gammln	B6 (p. 1092)

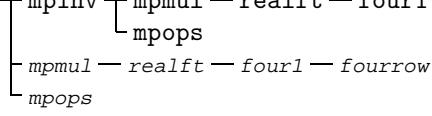
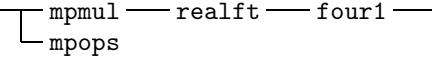
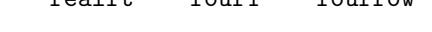
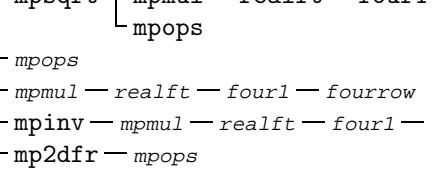
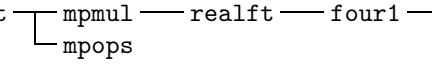
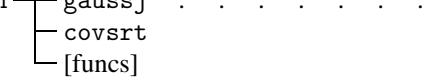
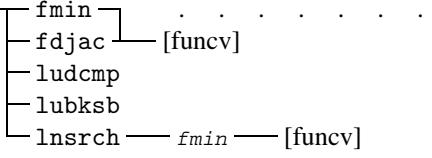
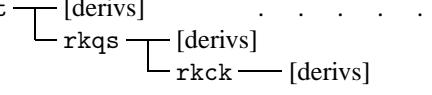
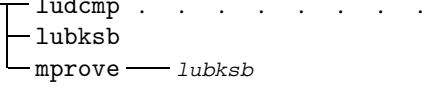
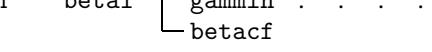
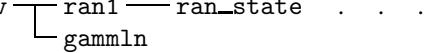
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golden — [func]	...	B10 (p. 1202)
gser — gammln	...	B6 (p. 1090)
hqr	...	B11 (p. 1232)
hufdec — hufmak	...	B20 (p. 1349)
hufenc — hufmak	...	B20 (p. 1348)
hufmak	...	B20 (p. 1346)
hunt	...	B3 (p. 1046)
hypdrv	...	B6 (p. 1139)
hypgeo	hypser	...
	odeint	bsstep
		mmid
		pzextr
		hypdrv
hypser	...	B6 (p. 1139)
icrc	...	B20 (p. 1344)
igray	...	B20 (p. 1344)
index_bypack	...	B8 (p. 1176)
indexx	...	B8 (p. 1173)
interp	...	B19 (p. 1337)
irbit1	...	B7 (p. 1159)
irbit2	...	B7 (p. 1160)
jacobi	...	B11 (p. 1225)
jacobn	...	B16 (p. 1309)
julday	...	B1 (p. 1011)
kendl1 — erfcc	...	B14 (p. 1279)
kendl2 — erfcc	...	B14 (p. 1279)
kermom	...	B18 (p. 1329)
ks2d1s	quadct	...
	quadvl	
	pearsn	betai
		gammln
		betacf
	probks	
ks2d2s	quadct	...
	pearsn	betai
		gammln
		betacf
	probks	
ksone	sort	...
	[func]	
	probks	
kstwo	sort2	...
	probks	
laguer	...	B9 (p. 1191)

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lfit	[funcs]	B15 (p. 1288)
	gaussj		
	covsrt		
linbcg	atimes	B2 (p. 1034)
	snrm		
	asolve		
linmin	mnbrak	B10 (p. 1211)
	brent	[func]	
lnsrch	[func]	.....	B9 (p. 1195)
locate	.....	.....	B3 (p. 1045)
lop	.....	.....	B19 (p. 1342)
lubksb	.....	.....	B2 (p. 1017)
ludcmp	.....	.....	B2 (p. 1016)
machar	.....	.....	B20 (p. 1343)
medfit	select	.....	B15 (p. 1294)
memcof	.....	.....	B13 (p. 1256)
mgfas	rstrct	.....	B19 (p. 1339)
	slvsm2		
	interp		
	relax2		
	lop		
mglin	rstrct	.....	B19 (p. 1334)
	slvsm1		
	interp		
	relax		
	resid		
midexp	[func]	.....	B4 (p. 1058)
midinf	[func]	.....	B4 (p. 1056)
midpnt	[func]	.....	B4 (p. 1054)
midsql	[func]	.....	B4 (p. 1057)
midsqu	[func]	.....	B4 (p. 1057)
miser	ran1	ran_state	.....
		[func]	B7 (p. 1164)
mmid	[derivs]	.....	B16 (p. 1302)
mnbrak	[func]	.....	B10 (p. 1201)
mnewt	[usrfun]	B9 (p. 1194)
	ludcmp		
	lubksb		
moment	B14 (p. 1269)
mp2dfr	mpops	B20 (p. 1357)

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mpdiv		B20 (p. 1356)
mpinv		B20 (p. 1355)
mpmul		B20 (p. 1354)
mpops		B20 (p. 1352)
mppi		B20 (p. 1357)
mprove		B2 (p. 1022)
mpsqrts		B20 (p. 1356)
mrqmin		B15 (p. 1292)
newt		B9 (p. 1196)
odeint		B16 (p. 1300)
orthog		B4 (p. 1064)
pade		B5 (p. 1080)
pccheb		B5 (p. 1080)
pcshft		B5 (p. 1079)
pearsn		B14 (p. 1276)
period		B13 (p. 1258)
plgndr		B6 (p. 1122)
poidev		B7 (p. 1154)
polcoe		B3 (p. 1047)
polcof		B3 (p. 1048)
poldiv		B5 (p. 1072)

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polin2 — polint	B3 (p. 1049)
polint	B3 (p. 1043)
powell [func]	B10 (p. 1210)
└ linmin mnbrak [func]	
└ brent [func]	
predic	B13 (p. 1257)
probks	B14 (p. 1274)
psdes	B7 (p. 1156)
pwt — pwtset	B13 (p. 1266)
pwtset	B13 (p. 1265)
pythag	B2 (p. 1029)
pzextr	B16 (p. 1305)
qrdcmp	B2 (p. 1039)
qromb trapzd — [func]	B4 (p. 1054)
└ polint	
qromo midpnt — [func]	B4 (p. 1055)
└ polint	
qroot — poldiv	B9 (p. 1193)
qrsolv — rsolv	B2 (p. 1040)
qrupdt rotate	B2 (p. 1041)
└ pythag	
qsimp trapzd — [func]	B4 (p. 1053)
qtrap trapzd — [func]	B4 (p. 1053)
quad3d polint	B4 (p. 1065)
└ [func]	
└ [y1]	
└ [y2]	
└ [z1]	
└ [z2]	
quadct	B14 (p. 1282)
quadmx wghts — kermom	B18 (p. 1330)
quadvl	B14 (p. 1282)
ran	B7 (p. 1142)
ran0 ran_state	B7 (p. 1148)
ran1 ran_state	B7 (p. 1149)
ran2 ran_state	B7 (p. 1150)
ran3 ran_state	B7 (p. 1158)
ran_state	B7 (p. 1144)
rank	B8 (p. 1176)
ratint	B3 (p. 1043)

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ratlsq	[func]	B5 (p. 1081)	
	svdcmp	pythag		
	svbksb			
	ratval			
ratval	B5 (p. 1072)	
rc	B6 (p. 1134)	
rd	. . . . .	. . . . .	B6 (p. 1130)
realft	four1	fourrow	B12 (p. 1243)
recur1	. . . . .	. . . . .	B5 (p. 1073)
recur2	. . . . .	. . . . .	B5 (p. 1074)
relax	. . . . .	. . . . .	B19 (p. 1338)
relax2	. . . . .	. . . . .	B19 (p. 1341)
resid	. . . . .	. . . . .	B19 (p. 1338)
rf	. . . . .	. . . . .	B6 (p. 1128)
rj	rc	B6 (p. 1131)
rk4	— [derivs]	B16 (p. 1297)
rkck	— [derivs]	B16 (p. 1299)
rkdumb	— [derivs]	B16 (p. 1297)
	rk4	— [derivs]		
rkqs	rkck	— [derivs]	B16 (p. 1298)
rlft2	four2	fourrow	B12 (p. 1248)
rlft3	four3	fourrow_3d	B12 (p. 1249)
rotate	. . . . .	. . . . .	B2 (p. 1041)
rsolv	. . . . .	. . . . .	B2 (p. 1040)
rstrct	. . . . .	. . . . .	B19 (p. 1337)
rtbis	— [func]	B9 (p. 1184)
rtflsp	— [func]	B9 (p. 1185)
rtnewt	— [funcd]	B9 (p. 1189)
rtsafe	— [funcd]	B9 (p. 1190)
rtsec	— [func]	B9 (p. 1186)
rzextr	. . . . .	. . . . .	B16 (p. 1306)
savgol	ludcmp	B14 (p. 1283)
	lubksb			
scrsho	— [func]	B9 (p. 1182)
select	. . . . .	. . . . .	B8 (p. 1177)
select_bypass	B8 (p. 1178)	
select_heap	sort	B8 (p. 1179)
select_inplace	select	B8 (p. 1178)

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sfroid	plgndr	B17 (p. 1319)
	└─solvde ─difeq	
shoot	[load]	B17 (p. 1314)
	└─odeint └─[derivs]	
	└─rkqs ─rkck ──[derivs]	
	└─[score]	
shootf	[load1]	B17 (p. 1315)
	└─odeint └─[derivs]	
	└─rkqs ─rkck ──[derivs]	
	└─[score]	
	└─[load2]	
simplx	. . . . .	B10 (p. 1216)
simpr	ludcmp	B16 (p. 1310)
	└─lubksb	
	└─[derivs]	
sinft	realfft ─four1 ─fourrow . . .	B12 (p. 1245)
slvsm2	. . . . .	B19 (p. 1342)
slvsm3	. . . . .	B19 (p. 1337)
sncndn	. . . . .	B6 (p. 1137)
snrm	. . . . .	B2 (p. 1036)
sobseq	. . . . .	B7 (p. 1160)
solvde ─difeq	. . . . .	B17 (p. 1316)
sor	. . . . .	B19 (p. 1332)
sort	. . . . .	B8 (p. 1169)
sort2 ─indexx	. . . . .	B8 (p. 1170)
sort3 ─indexx	. . . . .	B8 (p. 1175)
sort_bypack	. . . . .	B8 (p. 1171)
sort_byreshape	. . . . .	B8 (p. 1168)
sort_heap	. . . . .	B8 (p. 1171)
sort_pick	. . . . .	B8 (p. 1167)
sort_radix	. . . . .	B8 (p. 1172)
sort_shell	. . . . .	B8 (p. 1168)
sptrm ─four1 ─fourrow	. . . . .	B13 (p. 1254)
spear	sort2	B14 (p. 1277)
	└─erfcc	
	└─betai └─gammln	
	└─betacf	
sphbes ─bessjy ─beschb ─chebev	B6 (p. 1121)

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sphfpt — newt — fdjac — shootf (q.v.) . . .	B17 (p. 1322)
└─ lnsrch	
└─ fmin — shootf (q.v.)	
└─ ludcmp	
└─ lubksb	
sphoot — newt — fdjac — shoot (q.v.) . . .	B17 (p. 1321)
└─ lnsrch	
└─ fmin — shoot (q.v.)	
└─ ludcmp	
└─ lubksb	
spline2 — spline — tridag	B3 (p. 1050)
splin2 — splint — locate	B3 (p. 1051)
└─ spline — tridag	
spline — tridag	B3 (p. 1044)
splint — locate	B3 (p. 1045)
sprsax	B2 (p. 1032)
sprsdiag	B2 (p. 1033)
sprsin	B2 (p. 1031)
sprstp	B2 (p. 1033)
sprstx	B2 (p. 1032)
stifbs — jacobn	B16 (p. 1311)
└─ simpr — ludcmp	
└─ lubksb	
└─ pzextr	
stiff — jacobn	B16 (p. 1308)
└─ ludcmp	
└─ lubksb	
stoerm — [derivs]	B16 (p. 1307)
svbksb	B2 (p. 1022)
svdcmp — pythag	B2 (p. 1023)
svdfit — [funcs]	B15 (p. 1290)
└─ svdcmp — pythag	
└─ svbksb	
svdvar	B15 (p. 1290)
toeplz	B2 (p. 1038)
tptest — avevar	B14 (p. 1271)
└─ betai — gammLN	
└─ betacf	
tqli — pythag	B11 (p. 1228)
trapzd — [func]	B4 (p. 1052)
tred2	B11 (p. 1227)
tridag	B2 (p. 1018)

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ttest	avevar	B14 (p. 1269)
	└ betai └ gammln └ betacf	
tutest	avevar	B14 (p. 1270)
	└ betai └ gammln └ betacf	
twofft	four1 └ fourrow	B12 (p. 1242)
vander	. . . . .	B2 (p. 1037)
vegas	ran1 └ ran_state	B7 (p. 1161)
	└ [func]	
voltra	[g]	B18 (p. 1326)
	└ [ak]	
	└ ludcmp	
	└ lubksb	
wt1	daub4	B13 (p. 1264)
wtm	daub4	B13 (p. 1267)
wwghts	kermom	B18 (p. 1328)
zbrac	[func]	B9 (p. 1183)
zbrak	[func]	B9 (p. 1184)
zbrent	[func]	B9 (p. 1188)
zrhqr	balanc	B9 (p. 1193)
	└ hqr	
	└ indexx	
zriddr	[func]	B9 (p. 1187)
zroots	laguer	B9 (p. 1192)
	└ indexx	

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